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JC04 Rec'd PCT/PT0 27 JUL 2005

PATENT Case No. 21114YP

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:

Kenneth L. Arrington, et al.

Serial No.

10/517,559

Filed:

December 8, 2004

For:

MITOTIC KINESIN INHIBITORS

Art Unit:

To be determined

Examiner:

To be determined

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

Sir:

- 1. In compliance with 37 C.F.R. 1.97, submitted on the attached form herewith is a list of patents, publications or other information which are requested to be made of record in this application. This Information Disclosure Statement is not an admission that any patent, publication or other information referred to herein is "prior art" for this invention. In accordance with 37 C.F.R. 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. 1.56(b).
- 2. In accordance with 37 C.F.R. 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made.
- 3. Applicants respectfully request that the Examiner initial the attached form after reviewing the pertinence of each reference.
- 4. Pursuant to 37 C.F.R. 1.98 (a)(2)(ii), copies of each cited U.S. patent and each U.S. patent application publication are not enclosed herewith.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450, on the date appearing below.

MERCK & CO., INC.

Date

7/25/05

INFORMATION DISCLOSURE STATEMENT

5. Pursuant to 37 C.F.R. 1.98(d), copies of references listed on the attached form that were submitted to or cited
by the Office in a related application upon which the instant application relies for an earlier filing date under 35 U.S.C. 120
are not enclosed. Related application(s) in which references were submitted to or cited by the Office are as follows:

	RELATED APPLICATION			
U. S. SERIAL NUMBER	FILING DATE	MERCK CASE		

lf thi	is is inconvenient, additional copies will be submitted upon reques	t.	
6	6. In accordance with 37 C.F.R. 1.97, (check one)		
	the attached information is filed within three months of the filing da	te of the captioned case.	
1. /	the attached information is filed more than three months after the f Office Action on the merits.	iling date but prior to the m	ailing of a first
	the attached information is being filed more than three months after Office Action on the merits, but before the mailing date of a Final A authorization is therefore given to charge Deposit Account No. 13-147(2)	Action or Notice of Allowand	ce. The enclosed
	1.17(p). the undersigned certifies that each item of information contained in cited in any communication from a foreign patent office in a countermonths prior to the filing of this Statement.		
	the undersigned certifies that no item of information contained in the acommunication from a foreign patent office in a counterpart foreign person signing the certification after making reasonable inquiry, we C.F.R. 1.56(c) more than three months prior to the filing of this States.	gn application, and, to the as known to any individual	knowledge of the
		Respectfully submitted,	_
		6 117	
		By: David A. Muthard	
		Attorney For App	licant(s)
		Reg. No. <u>35,297</u>	
		MERCK & CO., INC. Patent Dept., RY60-30	
		P.O. Box 2000	

Rahway, N.J. 07065-0907 (732)594-3903 Date: <u>July 25, 2005</u>

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Kenneth L. Arrington, et al.

Serial No.: 10/517,559 Case No.: 21114YP Art Unit:

To be determined

Filed: December 8, 2004 Examiner:

For: MITOTIC KINESIN INHIBITORS <u>To be determined</u>

Commissioner of Patents Alexandria, Virginia

EXPLANATION OF RELEVANCE OF NON-ENGLISH DOCUMENTS UNDER 37 C.F.R. 1.98(a)(3)(i)

Sir:

Applicants respectfully note that one (1) of the documents listed on the USPTO 1449 for submitted herewith is not in the English language and a copy of an English translations of that documents is not within the possession, custody or control of Applicants, and, to the Applicants knowledge, is not readily available. Below is a concise explanation of the relevance of that non-English documents:

The French scientific publication by O. Yebdri and F. Texier (*Bull. Soc. Chim. Fr.*) discloses preparation of a series of 2,3-dihydro-4-phenyl pyrrole compounds having nitrile and ester disubstitution on the 3-position. The Yebdri publication also describes saponification of the ester to provide the corresponding 2,5-dihydropyrrole compound (see for instance compound 19). There is no disclosure in the Yebdri publication of a pharmaceutical use for the compounds disclosed therein.

The French scientific publication by A. Ranjon (*Bull. Soc. Chim. Fr.*) discloses photooxidation reactions of polyphenyl imidazole and polyphenyl pyrrole compounds in which 2,5-endoperoxide derivatives are transient intermediates. The Ranjon publication also describes dihydroxypyrrole intermediates in such reactions (see for instance compound 29). There is no disclosure in the Ranjon publication of a pharmaceutical use for the compounds disclosed therein.

The instant invention discloses certain substituted 2,4-diaryl-2,5-dihydropyrroles that are inhibitors of the mitotic kinesin KSP and are useful in the treatment of cancer.

CERTIFICATE OF MAILING

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL IN AN ENVELOPE ADDRESSED TO: COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VIRGINIA 22313-1450, ON THE DATE APPEARING BELOW.

MERCK & CO., INC.

Date: July 25, 2005

Respectfully submitted,

David A. Muthard

Reg. No. 35,297

Attorney for Applicant(s)

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Rahway, New Jersey 07065-0907

(732) 594-3903

Substitute for form 1449A/PTO		Patent and Trademark Office; U.S DEPARTMENT OF COMMERCE COMPLETE IF KNOWN
INFORMATION DISCLOSURE	Application Number	10/517,559
OF FEMALENIE DV ADDI ICANIE	Filing Date	December 8, 2004
O STATEMENT BY APPLICANT	First Named Inventor	Kenneth L. Arrington
JUL 27 2015 E	Group Art Unit	
(use as midny sheets as necessary)	Examiner Name	
Show TRANSPILL of 2	Attorney Docket Number	21114YP

-		U.S	S. PA	TENT DOCUMENTS	
Examiner Initials*	Cite No.	U.S. Patent Document	ind ode nown)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		6,057,342		Fevig et al.	05/02/2000
		3,644,414		Helsey, et al.	02/22/1972
		6,440,686		Sakowicz	08/27/2002
7					

			FORE	IGN PATENT	T DOCUMENTS	
Evaminas	Foreign Patent Document		•	Name of Patentee or Applicant	Date of Publication of	
Examiner Initials*	Cite No.	Office	. Number	Kind Code (if known)	of Cited Document	Cited Document MM-DD-YYYY
		PCT	WO 93/20099		Yamanouchi Pharm. Co., Ltd.	10/14/1993
		PCT	WO 98/06694		The DuPont Merck Pharm. Co.	02/19/1998
		PCT	WO 2005/019206		Merck & Co., Inc.	03/03/2005
		PCT	WO 2005/019205		Merck & Co., Inc.	03/03/2005
		PCT	WO 03/106417		Merck & Co., Inc.	12/24/2003
		PCT	WO 03/049527		Merck & Co., Inc.	06/19/2003
		PCT	WO 2004/037171		Merck & Co., Inc.	05/06/2004
		7 1			-	

Examiner Signature	Date Considered	

^{*}Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Su	bstitute for form 1449B/PTO				COMPLETE IF KNOWN
	NFORMATION	DIS	CLOSURE	Application Number	10/517,559
STATEMENT BY APPLICANT			DI ICANT	Filing Date	December 8, 2004
3	STATEMENT DI APPLICANT			First Named Inventor	Kenneth L. Arrington
			,	Group Art Unit	
	(use as many sheets	as n	ecessary)	Examiner Name	
Sheet	2	of	2	Attorney Docket Number	21114YP

		NON PATENT LITERATURE DOCUMENTS
Examiner Initials*	Cite No.	Include name of the author, title, date, page(s), volume-issue number(s) and place of publication.
		C. Sonesson, et al., J. Org. Chem. 1996, Vol. 61, pg. 4756-4763
		N. Iwasawa, et al., J. Org. Chem. 1998, Vol. 63, pg. 3164-3165
		N. Iwasawa, et al., J. Org. Chem. 1997, Vol. 62, pg. 1918-1919
		R. Mison, et al., J. Chem. Research(S), 1989, 126-127
		O. Yebdri, et al., Bulletin De La Societe Chimique de France, 1983, pg. 195-201
		A. Ranjon, Bulletin De La Societe Chimique de France, 1971, pg. 2068-2072
		M. Bujard, et al., Tetrahedron Letters, Vol. 40, 1999, pg. 8785-8788
		M. Carpes, et al., Synlett, No. 7, 2000, pg. 1037-1039
		A. Boukhari, et al., J. Cryst. Spect. Res., Vol. 19, Iss. 3, 1989, pg. 603-621

Examiner	Date
Signature	Considered

^{*}Examiner: Initial if reference considered, whether or not citation is in conformance with MFEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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